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profiles

Vol. 7, No. 1 University of Montana, Missoula 59801 November, 1974

Fund-use settlement in progress

Negotiations to settle the University's involvement with an alleged misuse of federal work-study funds are being made this month.

The University and the federal Department of Health, Education and Welfare determined during settlement talks that the University repay \$175,000 to the department.

Legal counsel for the University has determined that it would be legal to use money from a fund of student building fees to repay the amount. President Richard C. Bowers said "it is my intent" to use the money from the building fee fund. He had said earlier that the money would not be taken from the University's operating budget.

Representatives of the University will meet with the National Collegiate Athletic Association (NCAA) Committee on Infractions Nov. 30 to respond to allegations of violations of NCAA regulations. The future of intercollegiate athletics on campus may be affected if the committee decides to

penalize the University. The place of the meeting had not been determined as press time, but usually such meetings are in Kansas City, Mo.

Settlement on the amount to be repaid by the University to HEW was made late in September. The claim for restitution was based on a July 1973 HEW audit of financial aid to athletes at the University from September 1967 to June 1972.

Athletic Director Jack Swarthout and Assistant Football Coach William D. Betcher were acquitted last year of all charges of misuse of work-study funds in the athletic department.

The settlement talks were initiated by former President Robert T. Pantzer after he received a letter in February from Otis L. Packwood, U.S. attorney, which informed Pantzer that "Your institution is accountable to make restitution of the sum of \$344,931.86, more or less, on grounds of payment under mistake of fact and erroneous payment."

The audit contained the statement, "The records examined included those subpoenaed by the United States Attorney for Montana in connection with the recent criminal trial concerning the use of federal student financial aid funds. Although University officials were acquitted of criminal charges, evidence presented at the trial showed that federal student aid programs were not administered in accordance with federal requirements."

Bowers said he is pleased to have had the assistance of the Justice Department in resolving the matter.

"Hopefully the work-study question is now resolved as far as the federal government is concerned and every effort will be made to avoid any similar situation in the future."

The terms and time of payment from whatever funds are determined will be made this month by the Board of Regents of Higher Education in Montana.

More enrolled than expected

The enrollment figure of 8,582, computed after the first week of Fall Quarter classes at the University, is 300 more than earlier enrollment projections.

Philip T. Bain, director of admissions and records, reported the number of students enrolled is 130 more than the total recorded at the end of the first week of classes last year.

Bain said he had expected as much as a two per cent decrease from the first week enrollment of 8,452 last year, based on a downward national trend.

A national trend did follow at the University concerning housing, however. All available campus housing has been filled including dormitories for single students and married student apartments.

The Chronicle of Higher Education reported in its Sept. 16 issue that because of tight housing, colleges and universities across the country are employing emergency measures to cope with housing shortages.

Ron W. Brunell, assistant director of residence halls, said 2,408 students are living in on-campus housing at UM. The maximum capacity for dormitory housing is approximately 2,456. However, Brunell said, some of the rooms are triples which are kept as doubles, and some are resident assistant rooms which are kept as singles.

"All male on-campus residents are now housed permanently," Brunell said, "but approximately 10 female residents are temporarily doubled with resident assistants or tripled in Craig Hall."

Three receive alumni award for service



Tony J. Antonucci

Three outstanding University of Montana alumni were chosen to receive the annual Distinguished Service Award during UM's Homecoming celebration in October.

Naseby Rhinehart, assistant professor and head athletic trainer at UM, Tony J. Antonucci, speech and language arts teacher at Continuation High School in Spokane, Wash., and Gail Boyd de Stwolinski, professor of music theory at the University of Oklahoma in Norman are the recipients of the award this year.

The awards are given each year during Homecoming to alumni or former students who have brought honor to themselves and their University for their distinguished service to the University, Montana or the nation.

Naseby Rhinehart has dedicated 39 years of service to the University of Montana since his graduation with honors from UM in 1935.

Rhinehart has received a number of

distinguished awards for his dedication and service during his years at UM. He was selected as "Outstanding Athletic Trainer" by the National Athletic Training Association (NATA) and was the recipient of the Missoula "Ray T. Rocene Sportsman of the Year" award in 1960.

He also received the NATA 25-year award in 1960 in recognition of meritorious service in the field of athletic training.

He received the 30-year service award from the Inland Empire Sports Writers and Broadcasters Association in 1966 and was elected to the Helms Athletic Foundation Hall of Fame for his achievement in athletic training.

Rhinehart was chosen as athletic trainer for the 1973 track and field American Olympic team, but he declined the position. A member of UM's Basketball Hall of Fame, Rhinehart also was appointed to the Governor's Council on Physical Fitness and Sports and was made an honorary member of the Montana Coaches Association.

The Most Inspirational Award in basketball at UM is named in honor of Naseby Rhinehart, who is chairman of the membership committee in the NATA and American Association of Health, Physical Education and Recreation.

Throughout the year, Antonucci visits students in jail, serves as a witness at trials in their behalf and helps them find jobs.

Many honors have been bestowed upon Antonucci including the Washington state "Teacher of the Year" award in 1970. He was selected "Outstanding Educator in America" for the 1973-74 school year and was named in Who's Who in High School Drama in 1971.

He was selected as one of the "Outstanding Young Men of America" by the United States Jaycees in 1971 and

was a nominee for national "Teacher of the Year."

Tony J. Antonucci has taught for seven years at Continuation High School (CHS) in Spokane, a school designed to help high school dropouts and disadvantaged youths.

Besides counseling and teaching students, Antonucci is highly active in community activities. He has been involved with Big Brothers for six years, is chairman of the Big Brothers Fund Drive and heads public relations for the organization. He was named Spokane's "Big Brother of the Year" in 1971 and was a candidate for "National Big Brother of the Year."

Antonucci teaches speech, language arts and drama at CHS.

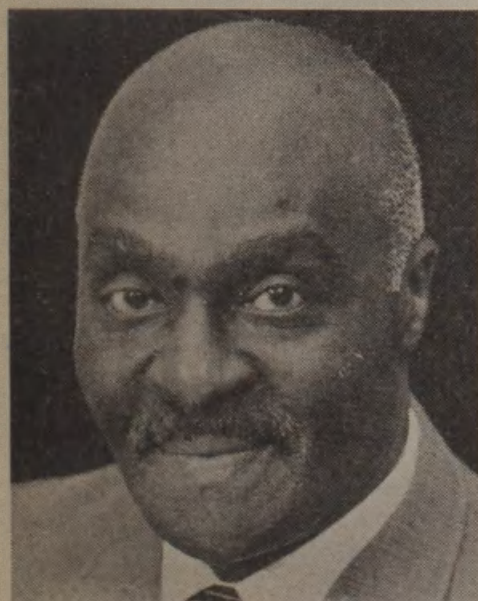
Antonucci received his Master's degree from Whitworth College in May of this year and is writing a book.

Gail Boyd de Stwolinski, a native of Sidney, was chosen for Who's Who in America in 1972-73. She also is honored in the World's Who's Who of Women, Who's Who In American Women, Dictionary of International Biography and will soon be listed in the American Biographical Institute and International Biography Center at Cambridge.

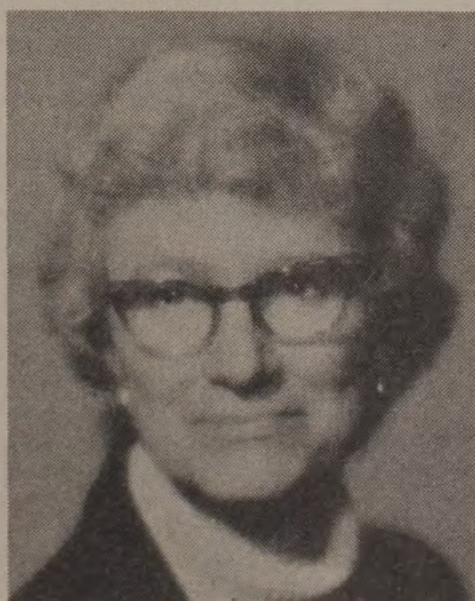
As professor of music theory at the University of Oklahoma in Norman, Stwolinski has received many honors for her dedication and service to the University and the field of music.

She was awarded the David Ross Boyd distinguished professorship in 1970.

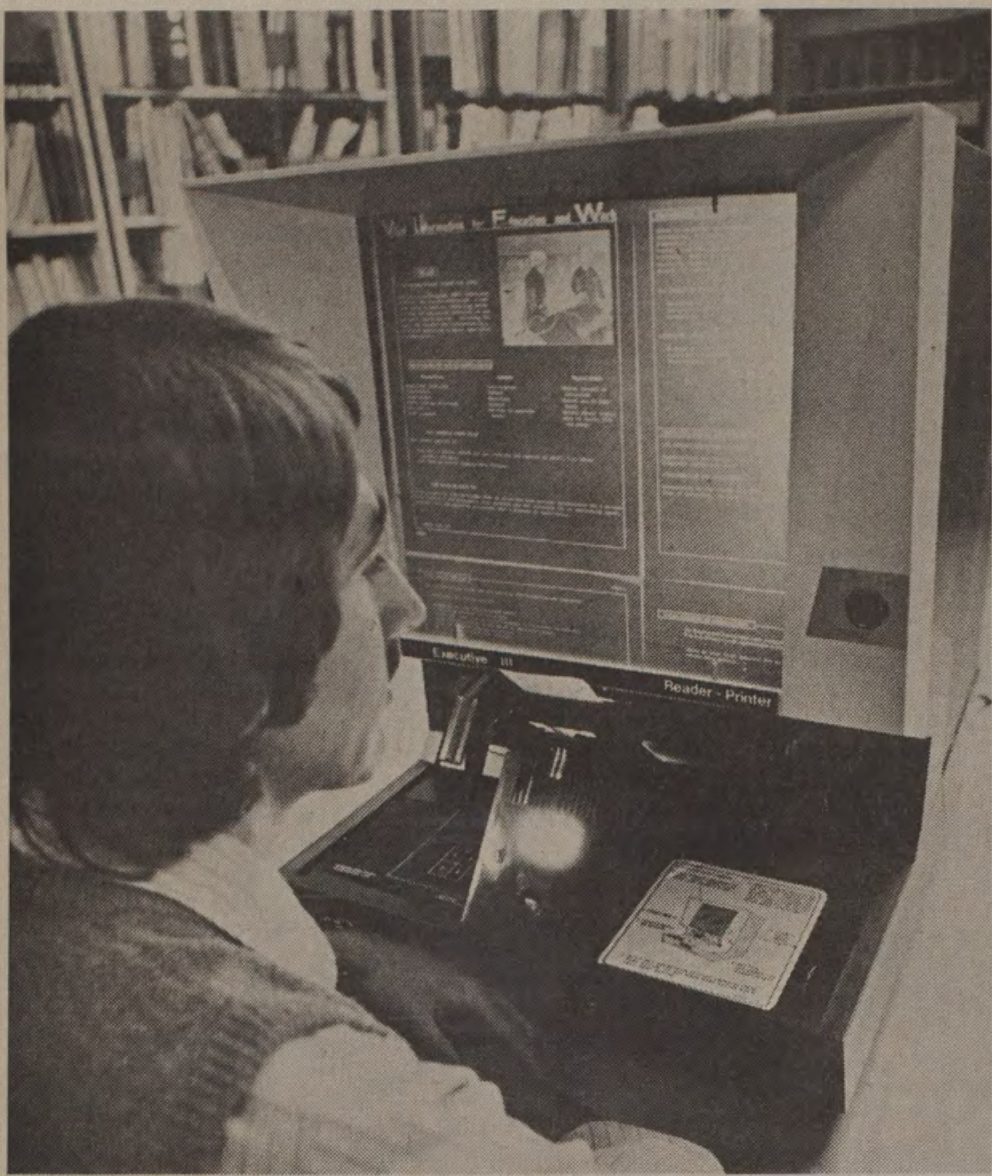
Stwolinski is a member of the President's Task Force for Faculty Personnel Policy and the President's Task Force for Resource Review. She is chairwoman of the Academic Program Council for the entire University of Oklahoma and is chairwoman-elect of the Faculty Senate for 1974-75. She will become the first chairwoman of the Faculty Senate in 1975-76.



Naseby Rhinehart



Gail Boyd de Stwolinski



Daniel A. Hamel, a graduate assistant with the Career Planning and Placement Service, examines a job description on the 3-M Executive III Reader-Printer machine. Job information and future employment outlooks are recorded on "Microfiche" read-out cards which are then projected on the Reader-Printer screen.

Documents in archives available for public use

In the almost-empty old library building—down the stairs in the basement, around two corners and through a door—is a not-well-known University office. A visitor might be convinced he has found it only by the sign on the door which reads: Dale Johnson, Archives.

Also not well known is that the archives contain about 5,000 cubic feet of material that is available for research and other public use. Interesting old photographs and documents on Montana history also are among the boxes and files which are housed in the basement of the Women's Center, Miller Hall, the Liberal Arts building and Fort Missoula besides the old Library.

The volumes in the archives will be consolidated and found a temporary new home on the top floor of the new Library sometime during 1975, according to Dale Johnson, assistant professor and archivist. How long the temporary home will be occupied before a final location is found is not known, he said.

Papers, diaries, photos and other non-printed material relating to Montana and of national and international significance are kept in the archives as well as copies of almost everything published at the University.

Among papers stored are those of Joseph M. Dixon, former representative and senator from Montana who was governor of the state from 1921-25 and Assistant Secretary of the Interior from 1929-33, and of James W. Gerard, U.S. ambassador to Germany from 1913-17.

Presently, the archives is receiving papers from Sen. Mike Mansfield's early career. Also included in the papers collection are those from the former Bonner Mill near Missoula, the Billings Brewing Company and the Great Falls Brewing Company.

Photos of Montana and the University are included in the Morton Elrod collection which contains about

1,000 glass plates of the University and University life during Elrod's tenure on campus in the 1920s. Even the minutes of the meetings of the Daughters of the American Revolution from 1919 to 1973 are stored.

A small collection of oral history is available which includes tape-recorded interviews with people who have special or extensive knowledge of some particular historic event.

Material about the University had been collected haphazardly for several years until an archivist was hired in 1968. A special committee has been established to investigate setting up a system of collecting material that pertains solely to the University.

Already stored in the University section are old copies of the Kaimin, student newspaper; the Sentinel, now defunct yearbook; the Law Review, law student newspaper; Profiles; published papers of professors; programs from the School of Fine Arts, and UM presidents' papers.

Papers of former professors, including authors Dorothy M. Johnson and Robert Turner, have been donated.

The material is stored in boxes and folders which are designed to prevent deterioration. They are made of a special paper with no sulphur content.

Ordinary paper, because of its sulphur content disintegrates itself and whatever it touches.

Johnson said the historical manuscripts section of the University archives "compares favorably with those of other institutions of this size."

He said some people are hesitant to donate papers and family histories, he said, for fear that someone will unearth "family skeletons."

"That is not what happens in historical research," he said. People who come to the archives for research have definite projects in mind, he said, and the volumes of material alone would discourage discovery of personal material.

Campus student center offers counseling, jobs

by Dennis Erickson
Information Services

As long as students at the University of Montana need help finding jobs, selecting curricula or solving any of the many problems posed by college life, the Center for Student Development (CSD) will remain as indispensable to the campus as it already is.

An on-campus organization, the CSD offers students free services in counseling, testing, job placement and general advising. Eight professional counselors are available to help entering freshmen who encounter registration problems; aid graduating students and alumni in finding jobs; assist handicapped and foreign students who seek help, and counsel students about their personal problems.

Fred Weldon, CSD director, said, "I'm proud of the staff we have here. They are professional, well-trained, concerned people."

Five offices comprise the center whose services can aid a student from freshman registration to job placement following graduation.

The new student first encounters the center through the office of Freshman and Transfer Student Orientation. This office, under the direction of Stephanie Jacobson, is responsible for organizing the two orientation weeks each year. Orientation activities introduce new students to the University—professors, advisers and campus facilities. All students are required to participate in either summer orientation in August or fall orientation.

At the Academic Advising Office, the University student is introduced to a new advising program which encourages freshmen to explore various disciplines before selecting a major field of study. Each student is assigned a faculty adviser who helps the student plan a course of study before he registers for classes. The adviser meets with the student each quarter prior to registration and throughout the year to offer advice according to the student's needs.

Pre-professional counseling for students in medicine, dentistry, optometry, veterinary medicine and podiatry also is offered. Donna Booth, director of the Academic Advising Office, said the office maintains a library of current catalogs and testing material from professional schools and provides

current data on their curricula requirements.

The Foreign and Handicapped Student Advising Office helps the approximately 80 foreign and 200 handicapped students who attend the University. It is designed to help handicapped students adjust to campus in such matters as housing, finances, coursework and on-campus therapy. The adviser to handicapped students, Margaret McGuire, serves as a liaison between students, the University administration and the Vocational Rehabilitation Center in Missoula.

McGuire also acts as a mediator between the foreign student, the campus community and the Immigration and Naturalization Service in helping foreign students adapt smoothly to college life in a foreign country.

Career Planning and Placement Services, under the direction of Don Hjelmseth, helps undergraduates, graduate students and alumni find and fill job positions.

Career planning begins the first year a student enrolls. The student is provided information and counseling through the placement service to assist him or her in making a reasonable decision concerning career development. The office helps prepare the student for employment interviews and gives guidelines for the preparation of resumes and letters of application.

Job interviewers from a wide variety of professions are invited to the campus for interviews with students and alumni. The office also posts an up-to-date list of job vacancies in business, government, education and industry to inform students of employment opportunities. The Career Library, also available at placement services, houses a large collection of brochures and reports dealing with career opportunities, trends and outlooks dealing with various disciplines.

The fifth branch of the center, Counseling and Testing Services, provides students with professional confidential counseling and a series of aptitude and interest tests which aid the student in choosing a career. Professional counselors are available to help with new problems encountered at college. Special counseling programs are designed to help students lose weight, stop smoking, solve marital problems or learn to communicate more effectively with others.

Harry Newburn dies

Harry K. Newburn, who served as president of the University of Montana from 1959-63, died Aug. 25 in Mesa, Ariz.

Newburn, who also served as president of Arizona State University, the University of Oregon and Cleveland State University, held the title of professor of education at Arizona State at the time of his death. He was 68.

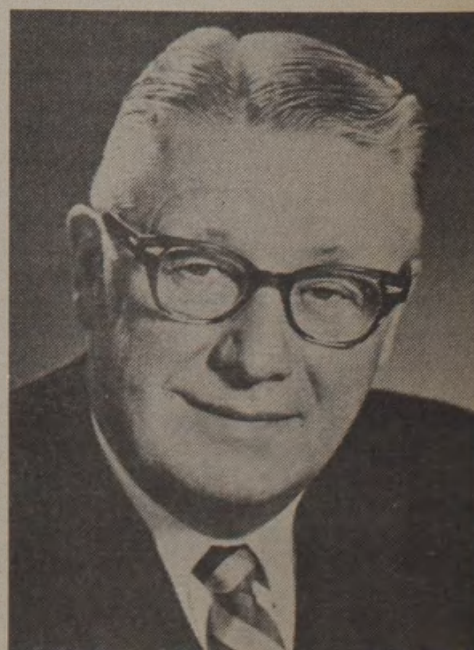
Former UM President Robert T. Pantzer, who served under Newburn as executive vice president and financial vice president, said:

"While I served as a vice president, I found Harry Newburn to be a very skilled administrator. His prime interest was the preservation of a first-rate educational program at the University. He was widely known nationally as a dedicated educational leader."

Newburn received his bachelor of education degree at Western Illinois University, Macomb, and his master of arts and doctor of philosophy degrees at the University of Iowa, Iowa City.

He received the Distinguished Service Award of the University of

Oregon and was presented one of the first Distinguished Education Awards by the University of Iowa.



Harry K. Newburn

Zoologists study Jacana

An "insight into the common through the uncommon" may be accomplished through research being done at the University on a species of bird in which the female claims more than one mate and the male sits on the nest and raises the young.

Research on the American Jacana, a bird of Central America, is being funded under a \$28,900 grant from the National Science Foundation and is under the direction of Donald A. Jenni, chairman and professor of the zoology department.

The project is a study of the relationship between the social organization and the ecology of birds to learn why different species of birds have different social organizations and in what way their social organizations help them to

survive under diverse ecological conditions.

"The social organization of the Jacana has not been previously researched," Jenni said. "What makes the bird such an interesting subject is its polyandrous social arrangement. The female of the species claims more than one male as her mate. So what you have is a situation where the male sits on the nest and raises the young."

The most interesting new development in the project, according to Jenni, is the discovery of a second region inhabited by the Jacana, which has a different set of climatic conditions to which the birds have adapted.

"In the major study area," Jenni said, "120 inches of rain fall a year, and it's well spread out. In this region, females average 2.2 mates per breeding cycle."

"In the newly acquired second region, there is six months of drought and six months of plenty. Here females average 1.7 mates per breeding season, and the whole reproductive cycle is speeded up to fit the shorter breeding season."

"What's so interesting is the flexibility in social structure and breeding schedules this data shows. While the Jacana is a unique species, sometimes a scientist can gain an insight into the common through the uncommon."

TEA measures combustibility

On the fourth floor of the Science Complex is a machine that has blinking lights and a small furnace and can almost tell the future.

The machine, the new DuPont Thermal Evolution Analyzer (TEA), recently purchased by the chemistry department, is a three-part system used to measure the combustibility of organic elements such as wood, cotton or paper.

Combustibility of elements is tested by placing sample materials into the TEA's shoe-box-size furnace, increasing the heat in the furnace and observing and measuring the chemical processes of combustion of the material.

Ronald Susott, postdoctoral fellow in chemistry, said future data compiled from testing the combustibility of materials with the TEA could help in fire prevention programs, determining whether certain fabrics meet minimum safety requirements for combustibility or for deciding what materials to use in building a house.

The super-sensitive TEA is capable also of measuring organic pollutants in air or water and could be used to monitor pollution changes in the environment.

But for right now, the \$15,000 worth of equipment is being used by the Wood Chemistry Laboratory in conjunction with the U.S. Forest Service and National Science Foundation to study the combustibility of forest fuels.

Samples of forest fuels such as pine needles, soil leaves and branches can be tested in the analyzer to determine how easily they will burn and what path a fire would take in burning available fuel.

The machine also is being used to determine combustibility of organic matter and to test the organic material content of the water in the Placid Lake drainage to determine if there has been an increase in organic matter in the water.

The TEA was purchased with money from several grants the Wood Chemistry Laboratory has received from national agencies or research projects.



Hook watercolor offered

A full-size print of a watercolor entitled "Bookshelf with Celery Seeds" by Walter Hook, art professor at the University, will be presented to each person who donates a minimum of \$15 to the University Friends of the Library for the purchase of books for the new library.

Each \$15 contribution also includes a membership in the Friends of the Library.

Hook's watercolor, which measures about 14 by 21 inches, is the fifth painting donated since 1970 by Montana artists to the Friends of the Library to obtain funds for University library books. A total of \$15,901 has been raised for new books with the prints.

Library Dean Earle Thompson said, Hook's participation "is a

continuation of our policy of having top-level painters involved in the Friends of the Library program. The nature of his painting is very appropriate because it is library-oriented as well as book-oriented."

Hook, who has received more than 70 major awards for artworks he has entered in regional and national exhibitions, has had 60 one-man exhibitions throughout the country.

Checks and money orders for the book fund may be made out to the Friends of the Library and sent to the Alumni Office, University of Montana, Missoula, Mont. 59801. Contributors donating \$15 or more should include their names and addresses so prints of the Hook painting may be sent to them.

Eight lettermen return

Four starters and eight lettermen are returning from last year to form Montana's basketball team for 1974.

The Grizzlies were 19-8 during the 1973-74 season and forced, on the strength of a 13-game win streak, a play-off for the Big Sky Championship. The Grizzlies dropped the play-off 60-57 to Idaho State.

Ken McKenzie, a unanimous selection as All-Big Sky center, heads Montana's returnees. The 6-9 Canadian averaged 18.7 points and 11.1 rebounds last year and is expected to be at least as productive during the 1974-75 campaign.

The University returns starting front-line strength in Eric Hays, Tim Stambaugh and Larry Smedley. Hays, who is only 6-3, sparked UM during its long win skein. His season average was 11.3 points and 6.4 rebounds. He averaged 14 points and eight rebounds during UM's winning streak.

The team also will get help up front from lettermen Tim Blaine and Mike Richardson. Richardson produced 10.9 points and 14.8 rebounds each game for the frosh.

Two freshmen, recruited virtually from Head Basketball Coach Jud Heathcote's backyard in Missoula, are expected to help on the frontline. Mark Reich and Steve DeMers starred at Missoula high schools. Reich is expected to spell McKenzie at center.

Two of Montana's top three guards, Robin Selvig and Kevin Rocheleau, graduated and Montana's biggest weakness is the lack of a guard to start with Ben DeMers.

Although an urgent hunt for a starting guard took place during the recruiting season, two letterman guards, Tom Peck

and Mark Nord, are waiting a chance to make the starting five.

Heathcote's quest for a quality guard produced Chris Powers, a 15 point scorer at Sinclair College in Dayton, Ohio. Powers transfers in with three years of eligibility remaining.

Drug addicts 'unhook' habits

Two faculty members at the University have tried to "hook" drug addicts on a program of regular physical exercise in an effort to "unhook" them from their habits of drug abuse.

A program designed to help the drug addict withdraw from drugs through a program of regular prescribed physical exercise was conducted by John L. Dayries, associate professor of health, physical education and recreation, and Brian J. Sharkey, professor in the same department, during September and October.

Under the assumption that "The same psychological mechanisms which addict a person to drugs also can addict a person to exercise," Dayries and Sharkey established drug treatment programs at gymnasiums, tennis courts and tracks in Anaconda and Butte.

Dayries said that through regular physical activity addicts can transfer dependence from drugs to exercise. Another advantage to using exercise to treat drug addiction, according to Dayries, is that addicts often experience favorable personality changes because of a regular exercise program.

UM PROFILES

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Prison teaching

'Within
three minutes
you forget
where you are'

A professor who has tried to teach an especially unresponsive class might give his Ph.D. and most devoted research assistant for a classroom filled with students who are eager to learn, highly motivated and unembarrassed at asking questions.

He or she might not be as interested in traveling 80 miles once or twice a week to teach a group of prisoners within the cold and forbidding walls of a prison. In such a prison, however, some University of Montana faculty members have been finding the students to fill the seats of a model classroom.

In January last year, University faculty members and graduate students began sharing their knowledge with offenders and officers at the Montana State Prison in Deer Lodge and discovering classroom situations both alike and unlike those on campus.

Patricia Douglas, director of the Center for Continuing Education and Summer Programs at the University who helped establish the program and also has taught accounting at the prison, described her teaching experiences in the August 1974 issue of the newsletter of the National Association of Accountants.

She recalled her first class period when she walked into the "dimly lighted and poorly ventilated rectangular building that serves as a partial library, classroom, lavatory, storage facility and general student area."

She described the expressions of the 22 faces she encountered.

"Some showed signs of awe; others had a questioning stare and some viewed me with suspicion and hostility. But unlike the typical on-campus class, not one of those students showed signs of indifference or boredom."

She said in an interview that teaching both prisoners and officers is much like teaching on campus.

"The only significant difference that I would describe is that many students at the prison have a deeper motivation for academic work than students on campus."

She said the prisoners displayed an eagerness to respond and were less embarrassed about being right

or wrong. She added that "the offenders especially had a real need to communicate."

In a small community like Deer Lodge, there are not many options for communication," she said, so the need may come from the environment rather than from age or confinement.

The Crime Control Commission has set aside money for those without funding from other sources, such as the state Department of Social and Rehabilitation Services, Bureau of Indian Affairs and the Veterans Administration, to attend the classes offered by the University. An A.A. degree for corrections officers is offered under the program and a degree for the prisoners is being considered.

The program was set up to offer basic liberal arts studies, Douglas said. The courses are chosen from suggestions from the prisoners, but they must meet educational standards and be in disciplines in which faculty members are available.

Although generally pleased with the program, Douglas said three handicaps hinder it.

"Unlike on campus, they have no option but asking questions and if they get stuck they have no where to go." Sometimes scheduling a course is complex, she said, and the offenders and officers have to rearrange their lives to fit the course.

"Because of the nature of the correctional system," she added, "both officers and offenders in different ways are subject to a punitive reward system. To a certain extent, then behaviour modification and rehabilitation is measured by participation, whether or not appropriate."

LeRoy Anderson, chairman and professor in the sociology department, taught a basic introductory sociology class last fall to officers and administrators at the prison.

He said that although some of his students were not "as tuned in to academic expectations" as he had expected, some were very interested.

The program is necessary, he said, because all the students are "being exposed to a broadening, liberalizing experience, which is valuable for people dealing as custodians of other people."

"I came away a little disappointed with the impact, and at the same time, gratified that these people were exposed at least to humanistic ideas as opposed to correctional officers versus prisoners."

He said he also gained a greater insight into the officers' perspective. He learned that in working with people who are potentially difficult, he said, important barriers are placed that create problems of communication.

"One has to be careful not to judge too harshly and too quickly the correction officers' point of view. In the same situation could I afford my liberal attitudes? I suppose I couldn't."

Mike Riley, a graduate student who taught a basic composition class last Winter Quarter described his experience teaching prisoners as "a high that is going to be hard to come down from."

He said the prisoners wrote "very depressing things at first—like beating their heads against the wall. But they wrote themselves out of that in about three weeks."

Bob Horlick, a graduate student who also taught Composition 100, described one prisoner by whose talent he was impressed.

He was "an older guy who had total recall and described things. A page and a half (of the prisoner's writing) contained more important experiences than many novels. You can't just file away that kind of writing."

He and Riley agreed that the prisoners responded to honesty and were very blunt and receptive to learning.

"When you tap that natural open honest process, it just flows out," Horlick said. "How many opportunities do you have to teach people who are ready for natural learning?"

Tom Foggin, a graduate student in forestry, taught classes in physical geography to both prisoners and officers. He said that although study facilities for the prisoners are inadequate and it is often inconvenient for the prisoners to attend class, he found they were more stimulated than the average undergraduate class.

He said he learned that the prisoners were "first human: they have the same problems, are capable, resourceful and inquisitive." He would like to teach prisoners again.

He regretted that he could not provide individual help to his prison

students, he said, but he believed he "got closer" to them.

"It was difficult not to ask 'when am I going to see you on campus?'"

He said he "turned a few heads for a while (he has a beard and long hair), but 'you walk in the first day and within three minutes you forget where you are.'"

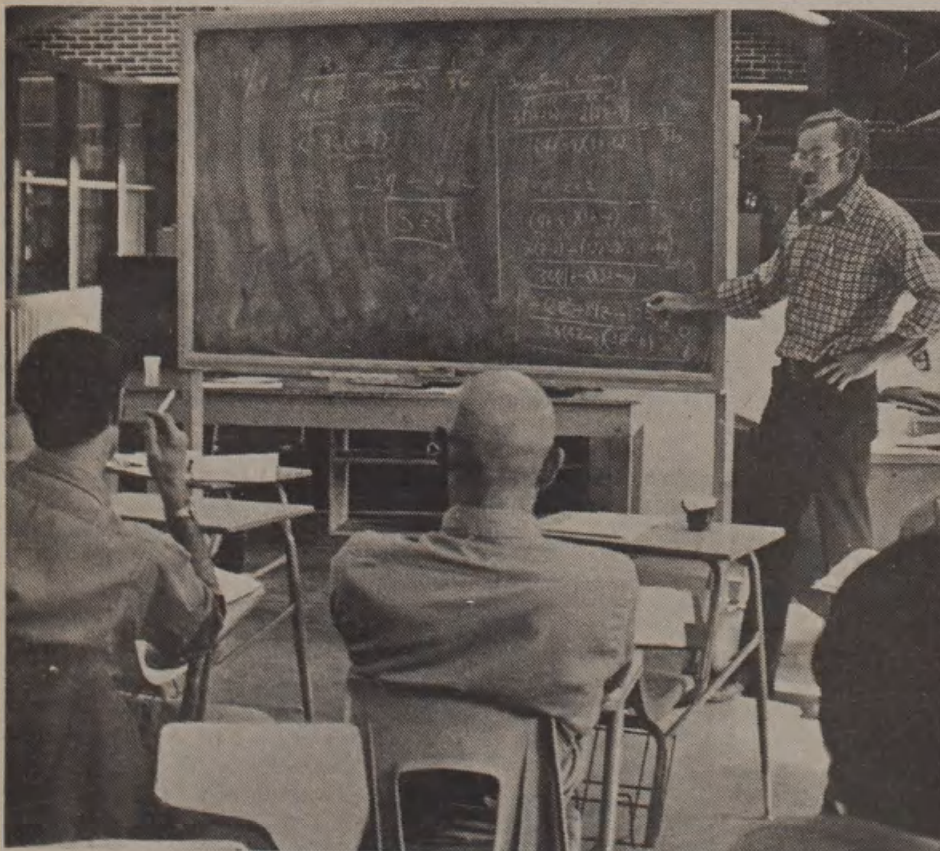
What do the prisoners think of the program? It was possible to interview only two of the prisoners who are taking classes and their views of the program and objectives were quite different.

They were interviewed during a break in a lecture on basic math by George McRae, associate professor of math.

One was a young man who had taken every class offered and had accumulated 59 credits. His goal is to be a teacher in a junior high school. He says he wants to attend the University when he is released and is "shooting for a master's degree."

He thinks most of the classes are hard and pointed out that most prisoners work eight hours a day and have only Saturday and four nights a week to study.

The other prisoner mildly complained that at times the professor talks too fast, but he understands what has been said by studying his notes afterwards. He has no particular goal in mind since he is serving a life sentence. He is taking the math class, his first from the University, for the educational value of it, he said, and hopes "to better" himself.



George McRae, associate professor of mathematics, teaches a math class in a room that serves as a classroom, recreation area and library for prisoners at Montana State Prison. McRae is one of many faculty members and graduate students at the University who have traveled to Deer Lodge once a week to teach prisoners as part of the prison teaching program provided by the University.



Fire prevention

A second look

Besides eliminating the Indian and the bison, the white man is settling the western regions of the United States also sought to dispose of another indigenous feature of the area: fire.

Although his casting out the Indian and almost completely killing off the bison have been realized for their destructive nature, until a few years ago, his effort to eliminate fire had been considered as totally beneficial.

In 1970, some foresters and botanists began to study the implications of keeping the natural phenomenon of fire from burning forests in the western regions of North America.

One of the people who has been studying fire management is James Habeck, professor of botany at the University. His studies have led him to believe that "fire needs the same attention given to it by scientists as soil, water and air."

Besides studying fire in Western Montana, he traveled to Australia on sabbatical leave last year to study some of the parallels between Australian and North American fire ecology.

The vegetation in western North America is believed to be "fire dependent," Habeck said, which means that both plants and animals have evolved in the presence of fire and their survival and well-being are linked to fire.

Although no plants in Australia are common to North America, Australian forests also seem to be fire dependent as several trees need high degrees of heat to open their cones for dispersal on the forest floor. An area needs to burn no less than every 15 to 20 years to rejuvenate the forests, Habeck said,

Before settlement by the white man, on both the Australian and North American continents were primitive people who used fire in their environment, he explained.

The North American Indian used fire to drive bison to advantageous positions for slaughter. The Australian Aborigines burned eucalypt forests in the bush although their reasons for doing so are not clearly understood.

When white man entered the environments on both continents, his first reaction was to eliminate all fire. Habeck speculated that this reaction could have originated in Europe where fire is not natural in the forests and is very destructive.

During the 1920s because of elaborate scientific control of fire, fuels on the forest floors started to accumulate. Western and Australian forests continually produce more organic matter than the fungi can break down and without fire an "aggravated situation" develops, Habeck said, which eventually leads to big, destructive fires. During midsummer, wind and low humidity combine to increase the chances of fires, which grow quickly when confronted with an endless supply of fuel.

"Fire prevention is not the ultimate solution because fuel accumulation merely delays fire," he said.

"Fire is a unique process," he said, and it may well be that the well-being of the forests may require fire. The cleaning up of leaves, stems and roots accomplished by fire cannot be duplicated by logging or chemical processes, he said.

"There is no other way to treat an



graphics by Kirk Johnson

area and come up with the same results."

Habeck has worked during the last four summers on a project in the Selway-Bitterroot wilderness area where a 66,000 acre drainage area has been set aside for experimental fires. Random wild fires are allowed to burn in the area, although if two fires are burning, other fires that start are distinguished.

In August and September of 1973 a 1,500-acre fire was allowed to burn and observers wrote down what they saw.

They discovered that wildlife does not flee rampantly from the fires. Birds hover to catch mice or rabbits that may be running at loose ends and dash after seeds that have popped from the cones because of the heat. They found their own footprints were soon completely obliterated by the tracks of curious animals.

The fire burned for about a month and left some areas burned heavily,

some lightly and some not at all. Nearly all the plants that had been partially burned resprouted and lodge pole pines shed seeds that are normally tightly clutched within their cones.

Habeck said fire helps maintain balance in the forest and is a perfect instrument for creating diversity.

"The biological diversity propagated by a fire, which is often described as the 'spice of life,' is also a necessity of life.

"We hope what we learn in the wildernesses and the national parks about how fire behaves will have some use in forests outside of the wilderness. We want to continue to explore what use fire can be in natural areas to maintain the pristine quality of the wilderness."

He said he thinks there will never be a time when fire will be allowed to run uncontrolled. Fire control cannot be labeled as good or bad, he said, but studies must be made to determine what function fires perform.

dance Montana adds touch of culture to Montana

An added touch of culture has come to Montana with the birth of *danceMontana*, a five member professional modern dance company in

residence in the School of Fine Arts at the University.

Karen (Kata) Langworthy, dancer and the company's managing director, and Bess Synder, dancer and technical coordinator, have wanted to form a professional touring dance company in Montana for the past two years. *danceMontana* is the first professional dance company in the history of the state.

"We wanted to build a company for Montana's young dancers to come to," Langworthy said. She said the company, through its teaching and performances, will provide professional work for Montana dancers "so they won't have to leave the state" to fulfill a dance career.

Langworthy said that up until now, professional dance has been practically unavailable in this section of the country.

The company's five members are now holding auditions for an additional female and possibly a male dancer.

"We're also in the process of choosing some apprentice company members," Langworthy said, "who will learn the Repertory and take our technique class." The apprentice member also will teach the company's classes while *danceMontana* is on tour.

Langworthy said *danceMontana* is looking for advanced level dancers, preferably with a bachelor's or master's of fine arts degree and some teaching experience.

danceMontana members plan to start touring Montana sometime this month and anticipate bookings from Montana colleges and high schools. The company offers workshops, one week residencies with a concert performance, two and one-half day residencies with a concert performance, mini-concerts for gym and studio, childrens performances and lecture-demonstrations.

All modern dance works are taught including technique classes in ballet, composition, improvisation and stage movement for actors. The company offers seminars in dance history, dance production, both mixed media and video-film techniques and in-service teacher training.

Pre-school children are taught explorations of rhythm, space, shape and sounds and the basic concepts of geometric movement activities.

Dance can be used as a teaching device in the classroom, Langworthy said. For example, she said, children can learn their numbers by doing body movements of the numbers. It is easier this way for the child to understand, Langworthy said.

"If their bodies know it, it helps their minds know it."

Children in classes kindergarten to the eighth grade are taught to explore movement through guided experiences in rhythm, sound, shapes, dynamics and space. Creativity materials such as props, pictures and poetry are used to further develop creative responses.

High school and adult classes are offered at the beginning, intermediate and adult levels. Movement experiences include technical exercises for strength, flexibility and control, movement phrases, improvisation and composition.

danceMontana is unique because it operates without an artistic director, a position which is common to almost all professional dance companies, excluding the Utah Repertory Theatre, which *danceMontana* is modeled after.

"We are our own directors," Langworthy said. Each member holds a different position in the company for one year before moving on to another position, she said.

Most of *danceMontana's* Repertory consists of modern works choreographed by company members Langworthy, Snyder and Nancy Brooks, as well as by nationally known figures in dance including John Wilson, University of Utah professor of dance.

The company tours with full costumes and sets. A concert at UM is being planned for some time in the spring.

The company receives some financial support from the Montana Arts Council and from fund raising activities and donations. Although not part of the University system, *danceMontana* is provided with office space, equipment and use of a dance studio by the School of Fine Arts.

A slide show about *danceMontana* is available at the company's office at the Women's Center on campus.



Montana's first professional dance company includes (clockwise from top) Karen Langworthy, Ray Spooner, Nancy Brooks, Bess Snyder and Peter Aune.

alumnnotes

13

MARION S. ONEAL '13 recently wrote a book entitled "Garlic In My Shoes. The Library of Congress has asked permission to put the book on films, tapes, jumbo braille and cassettes for the blind and disabled in veterans' hospitals. Her first book, "Don't Push My Trees Around," was sent to all libraries of the armed services in the U.S. and throughout the world. The book also was chosen by six states for their school lists.

20s

VIOLET CRAIN GRAHAM '24 is a teacher in the Tacoma, Wash., school system.
GEORGE H. BOLDT '26, LL.D. '61 has been elected president of the UM Foundation. Boldt is a senior U.S. district judge for the eastern district in Washington.
KENNETH P. DAVIS '28 has retired from the David D. Mason professorship in forest land use at Yale University.

40s

EDWARD G. ROSSMILLER '47 was appointed foreman of the 1974-75 Napa County Grand Jury in Napa, Calif. Rossmiller is a securities salesman in Napa.
ROBERT S. MORGAN '48 is supervisor of the 1.5 million acre Bitterroot National Forest with headquarters at Hamilton.
JACK J. DELANEY '49 recently published his newest book "The Good Teacher," a study of how public school teachers judge the quality of other teachers.
RICHARD L. GRIEB '49 is president, sole stockholder and general manager of Barnes Buick dealership in Great Falls. The dealership is now called Dick Grieb Buick, Inc.
JAMES J. SIVILS '49, M.Ed. '58 was awarded the Montana School of Journalism's 27th Gold Key for distinguished service by a Montana high school journalism teacher. During his tenure as advisor, the Charlo, Mont., Skyline newspaper has won 15 all-state ratings from the Montana Interscholastic Editorial Association and the journalism school.

50s

ROBERT M. DAMON '50 is supervisor of the 1.3 million acre Deer Lodge National Forest near Butte, Mont. Damon had been Deputy Supervisor of Kootenai National Forest since 1969.
JIM LUCAS '50, LL.B. '51 has been reelected to the board of trustees of the University of Montana Foundation, a non-profit organization which encourages donations for programs and facilities at UM.
JOE A. RENDERS '50 will become an assistant to the president of the Montana Farmers Union. Renders had been a partner in Public Relations Associates in Great Falls since 1960.
GEORGE ARMOUR '51 is state president of the Wyoming Education Association. He is a teacher in Lovell, Wyo.
EDWARD S. MC GLONE JR. '52 has joined the executive staff of Vernon Graphics, Inc., of Elmsford, N.Y., as national marketing manager. Vernon Graphics is a member of the Halliburton group of companies.
BILL COREY '53, M.S. '57 is deputy forest supervisor of the Klamath National Forest in Yreka, Calif.
JOHN JUTILA '53 is dean of the College of Letters and Science at Montana State University in Bozeman. Prior to his new position he was professor of microbiology and coordinator of the WAMI regional medical education program at MSU.
ROBERT MOONEY '53 is professor of military science at Washington State University in Pullman, Wash. He served as executive assistant of the office of Assistant Secretary of Defense at the Pentagon from 1971 until his assignment at WSU.
RONALD F. FAUST '54 is branch manager of Dain, Kaiman and Quail's office of investment counselors.
RICHARD J. PREUSS '54 was awarded the Legion of Merit (first oak leaf cluster) during Army retirement ceremonies for him at Fifth Army Headquarters, Fort Sam Houston, Tex.
WILLIAM T. MATLOCK '56 is president of the Coast South Life Insurance Co. in Phoenix, Ariz., and managing director of the Credit Insurance Division of the Commercial Bankers Life Insurance Co. in Encino, Calif.
MILTON MOLSBERY '56 is principal of the Fort Benton elementary school. He has been an educator for the past 24 years, 23 of which were spent in Plevna, Lodge Grass and Florence.

KENNETH D. LEUTHOLD '56 is comptroller for the Military Airlift Command at Scott AFB, Ill. He is responsible for budgeting and accounting for over \$1.5 billion in the command's operating budget.
JOSEPH L. JENKINS '57 is president of a six-county subgroup of the International Conference of Building Officials in northwestern Washington.
DEEN E. BOE '58 is the Range Management Specialist for the Eastern Region of the U.S. Forest Service in Milwaukee, Wis.



WALLACE R. OTTERSON '53, M.A. '55 is Servicewide Director of Personnel Management for the Forest Service, U.S. Department of Agriculture, in Washington D.C.

60s

HOWARD JOHN BEAR '60 received his M.S. degree in communication at Shippensburg State College in Pennsylvania.
DALE F. EVANS '63 received his Juris Doctor degree in the 1974 graduating class of The Lewis and Clark Northwestern School of Law in Portland, Ore.
MAJOR ALLAN E. JESKA '63, M.Ed. '66 has completed the U.S. Army Command and General Staff College at Fort Leavenworth, Kan. He and his wife, BARBARA JESKA '69, also an Army Reserve officer, are both teaching in the Vancouver, Wash., Public Schools.
RON D. ARNESON '64 is supervisor for the NALCO Environmental Research Corp. at Northbrook, Ill. Arneson received his doctorate in botany in June at Texas A & M, College Station.
LARRY BIERE '64, M.A. '70 is the new superintendent of the Stanford School System. Biere was principal at Darby High School prior to his appointment in Stanford.
GARY T. CUMMINS '64, M.A. '69 was named Director of the Historic/Archaeological Sites Section of Hawaii's Division of State Parks. His staff of two archaeologists, two historians, and an architect is responsible for coordinating Hawaii's historic preservation program with the Federal National Register of Historic Places program and with various county and private programs. Cummins' staff is compiling the Hawaii Register of Historic Places, a directory that will eventually contain some 3,000 listings of historic and archaeological sites important to Hawaiian history.

RUTH S. OSTENSON '65, M.A. '67 is assistant professor at Boston State College where she teaches Spanish and methodology and is involved with the student teacher supervision in foreign languages.
DALE SCHWANKE '65, J.D. '68 has been elected president of the Montana Diabetic Association. Schwanke is with the Jardine, Stephenson, Blewett and Weaver law firm in Great Falls.
ROBERT BROWN '66 is Administrative Resident at Mercy Hospital and Medical Center in San Diego, Calif., where he will spend 12 months in a clinical training program. The program consists of rotating through various departments, obtaining operational conversations around him and molding theoretical background to real hospital situations.
HAROLD GAMBLE '66 received his doctorate in philosophy from Washington University in St. Louis, Mo. He is an assistant professor of philosophy at Meramec Community College in St. Louis and has taught courses at other universities there.
THOMAS J. MOHOLT J.D. '66 received the Meritorious Service Medal for his service as Staff Judge Advocate in Misama AB, Japan. He is presently working for an LL.M. degree in labor law at George Washington University in Washington D.C.
ROBERT W. FLACCUS '67 received his M.S. degree in electrical engineering from Pennsylvania State University.
WAYNE HARSHA '67 received his M.Ed. in guidance and counseling from Southwest Texas State University. He is presently assigned to the Montana State University Detachment 450 as an Air Force instructor in ROTC.
SHARON HURLBERT TOOKE '67 received her M.S. degree in home economics in the family life science option from Montana State University in Bozeman. She and her husband, TOM TOOKE '67, and their four year old son live at Glasgow AFB.
JOHN K. RANDALL '68 is attending the Medical College of Ohio in Toledo. Randall is among the 11 UM alumni accepted for study at medical schools.
HELEN EDEN '69 has been named editor of the Northwest Tribune in Hamilton.
DONALD P. HANLEY '69, M.S. '73 is forest research associate at the University of Idaho in Moscow.



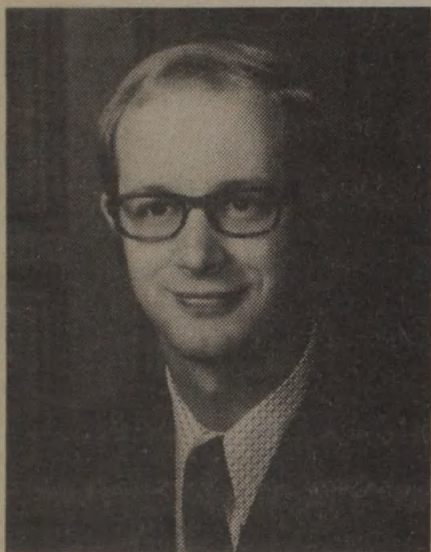
LAWRENCE J. WEST '54 is head of the Billings office of Dames and Moore. He has been admitted to partnership of the worldwide environmental and applied earth sciences consulting firm. Since joining the firm in 1967, West has been involved in a number of environmental, geologic, and rock mechanics investigations for mines, nuclear power plants and dams.

Alumni asked to help

Efforts to generate contacts between graduates and prospective employers are being made by the Career Planning and Placement Service at UM and alumni have been asked to help.
Alumni aware of job possibilities in their own or neighboring organizations are asked to contact Don Hjelmseth, Director of Career Planning and Placement Services, University of Montana, Missoula, Mont. 59801. Hjelmseth may be reached by telephone, (406) 243-2022, or the form below may be used.

I have heard of job openings at.....
.....
in the field of.....
Please contact (employer's name).....
Address.....
City.....State.....Zip.....
My name is.....
Address.....
City.....State.....Zip.....

JAMES D. EGGENSBERGER '69 is city editor of the Pacific Daily News in Agana, Guam. Eggenberger joined the staff of the Pacific Daily News as a sports writer after receiving his M.A. degree in journalism from Columbia University in 1972. He was promoted to sports editor, Sunday magazine editor and assistant editor before gaining his present position.



BRUCE K. WELDELE '68 was graduated from the Bank Administration Institute's School for Bank Administration at the University of Wisconsin. Weldele is assistant vice president and controller of the Bancorporation of Montana.

JOHN C. MILLER J.D. '72 joined the Vaughan, Hull, Marfisi and Goicoechea law firm in Elko, Nev.

JULIO MORALES J.D. '72 was general chairman this year of the law school's annual Law Day. The American Bar Association (ABA) gave the school its Award of Merit for the Law Day program this year during the ABA meeting in Honolulu, Hawaii, in August.

JOHN M. PAXSON '72 was named to head Voice of America's midwest bureau with headquarters in Chicago. The Voice is the radio service of the U.S. Information Agency. Paxson has been with the Voice of America's News Division in Washington D.C. since 1972.

MICHAEL N. RATAJCZYK '72 has begun basic flight training at the Naval Air Station in Pensacola, Fla. Upon completion of Aviation Officer Candidate School, he will be commissioned an ensign and begin more than a year of intensive ground and inflight training leading to his designation as a naval aviator.

MARK B. ROATH '72 is a volunteer in the Peace Corps in Costa Rica. He has been there since 1972 and will finish his commitment in April.

DAVID B. STUHR '72 was graduated from the Air University's academic instructor course at Maxwell AFB, Ala. Major Stuhr is a system program management officer at The Citadel.

GARY CURRAN '73 has joined the staff of the Bitterroot Drug in Hamilton.

CHRISTOPHER DALY '73 is a graduate teaching assistant in the Slavic Language Department at the University of Alberta at Edmonton, Canada. He recently attended the International Conference of Soviet, East European and Slavic Studies in Banff.

BETTY HARRIS '73 is a county social worker in Red Lodge.

JAN ROY SEARS '73 has been accepted by the University of Minnesota Medical School. Sears is one of 11 UM alumni accepted for study at various medical schools this fall. He will study dentistry at the Minnesota school.

RONALD A. TAYLOR '73 is field auditor for the Firestone Tire and Rubber Company in Huntington Beach, Calif. His wife, CARMEN CORNELIUS TAYLOR '71, formerly assistant project director of Upward Bound/Special Services at UM, has joined her husband in Calif.

GEORGE B. BEST '74 and JOHN B. DUDIS JR. J.D. '72, have joined the Murphy, Robinson, Heckathorn and Phillips law firm in Kalispell, Mont.

marriages

DONALD O. ENEBO '55 to Joyce Mande.

GARY STUART DUNCAN '73 to Catherine Marie Wake.

GERALD CARL DASINGER '71 to ZOLA KAY KOSTELNAK '71.

KEVEN RALPH CLADER '73 to Verna Maxwell Easom.

RONALD A. BRIGGS '74 to Susan Marjory Raw.

LYNN ROBERT BOUTILLER '72 to VIRGINIA BEA ALLEN '74.

PENNY BILLINGS '73 to Alan B. Underwood.

VERTA ANNE BASOLO '73 to Larry James Dorseth.

ROBERT VERN BARNES x'69 to Marjorie L. Miller.

MARK S. PEPPLER '73 to RONNENE A. ANDERSON '73.

PATTY JO DUNCAN '71 to Joel Robert Foster.

RICK STRAUSS '70 to Irene Kachena.

WILLIAM RICHARD HARTMAN '71 to Mary Beth Norum.

TERRY LYNN WARD '72 to Lynn Donald Gross.

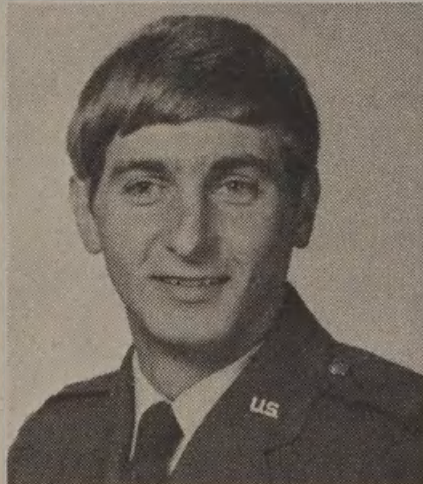
DALE L. LARSON '69 to Carol Dianne Kimbrough.

ELIZABETH ANN SCHMOLL '73 to John Steven Gray.

EDWARD STEPHEN MEDVEC '72 to Aleksandra Jadwiga Kubiak.

JANICE LYNN TRICKEL '70 to David Walter Millen.

EDWARD MILLIS '69 to Robin Zwirlein.



DAVID L. DENNING '71 was awarded his silver wings at Vance AFB, Okla., upon his graduation from U.S. Air Force pilot training. Lt. Dennine will return to his Montana ANG unit where he will fly the F-106 Delta Dart.

E. M. "MICK" HAGESTAD '72 to Patricia Lynn Osborne.

RAY D. JARRETT '60 to CAROL HANNAH '73.

HEIDI MONIKA GASSER '72 to David Charles Thomas.

HOWARD M. NICHOLS '74 to Leslie Ann Downey.

THOMAS J. PETTERSON '73 to Margaret L. Wright.

CURT PETERSON '73 to Kathleen Alice Huhuet.

HAROLD RONALD PITT '66 to Kay Lynn Christensen.

ANTHONY ROLLIN '74 to Laurie McKinnon.

PHILIP E. SHULTS '66 to Christine R. Blakley.

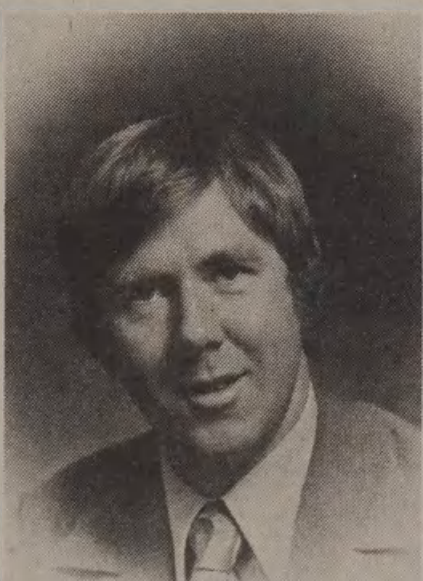
WILLIAM N. SNELL '64, J.D. '67 to Mary Elizabeth Targett.

JANNELLE FALLAN '74 to KENNETH D. DUNHAM '74.

GARRY L. DOUGLAS '68 to Karleen K. Costello.

RAELEN B. KEASTER '73 to STEVEN L. WILSON '73.

CRAIG VANCE WILSON '71, M.A. '73 to Kristianne Beth Bengton.



ARNOLD J. MALONE M.A. '70 was elected a member of Parliament for the constituency of Battle River in the Province of Alberta, Canada.

births

Mary Louise to Myra and LAWRENCE J. ALVES '64.

Sean Patrick to Peggy and GARY EUDAILY '64.

Mark Christopher to RONALD '68 and BARB LELAND '69.

Mark Randolph to Pat and BERT R. MAGNUSON '61.

Amy deVeaus to PATRICIA JOAN '72 and PETER LAWSON STEER '70, M.A. '72.

Stephen Benjamin to Steve and GLENDA GUM STEFFEK '67.

Kara Marie to RONALD '73 and CARMEN CORNELIAS TAYLOR '71.

deaths

GENEVIEVE WORTH BASSETT M.A. '69 died in Great Falls at the age of 54. She was a retired dean of girls at C. M. Russell High School.

ROBERT LYLE BELL x'20 died in Denver, Colo., at the age of 74.

DONNA NORDEEN CUCIARI '63, M.A. '72 died Aug. 12 in Fairbanks, Alaska, at the age of 33. She taught at Sentinel High School from 1972-1973.

RICHARD F. CRANDALL '48 died August 30 in White Plains, N.Y., at the age of 72. A retired newspaperman, Crandall worked as a reporter for The Missoulian before joining the New York Tribune staff in 1926. He had served as a reporter, assistant city editor and picture editor of the Tribune before he retired in 1966. He also had been associate professor at the Columbia University Graduate School of Journalism for 25 years.

ARTHUR H. HUDSON JR., '61, M.S. '74 died at age 34 in Fayetteville, Ark. He was European marketing director of Syntex International, Inc., in Mexico City, Mexico.

FRANCES SCHALL KOSINSKE '32 died in Philadelphia, Pa., at the age of 63. She was a retired elementary school teacher.

DOUGLAS C. MORRISON JR. '49 died September 30 in Cottonwood, Ariz. Morrison was best known for his many accomplishments in the fields of wildlife and watershed management and for his innovative work in developing a cooperative wildlife management plan for the Forest Service and the Arizona Fish and Game Department.

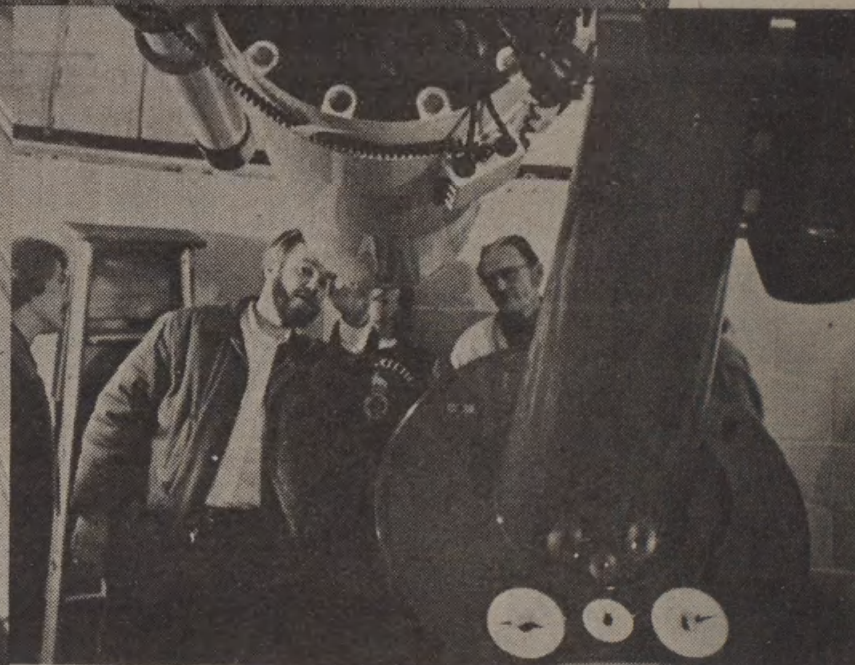
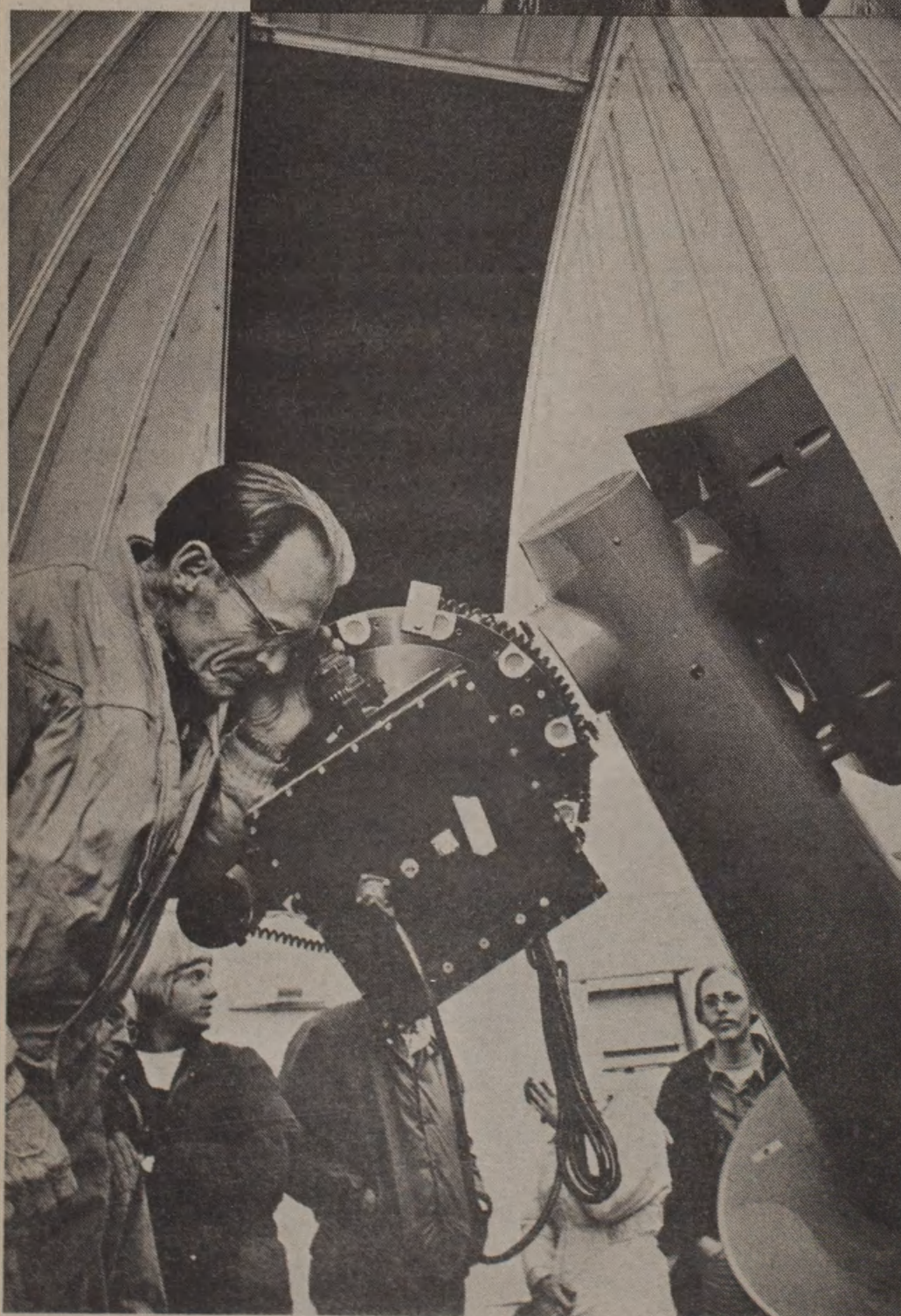
A. V. (DEL) PETERSON M.E. '43 died in Kalispell at the age of 73. He taught school for 44 years in South Dakota, North Dakota and Montana. His last 17 years of teaching were in the Kalispell school system prior to his retirement in 1967.

JANET DION ROBERTS '39 died at the age of 56 in Columbus, S.C.

DOROTHY TALBOTT x'27 died at the age of 60 in Butte. She was the wife of W. W. Talbott, vice president of the Montana Power Company.

HYLA NADINE ULRIGG '65 died in Missoula at the age of 67. She was a teacher at Lewis and Clark and Paxson grade schools for 12 years before she retired in 1968.

MATTHEW WOODROW '60, a Billings pharmacist, died of injuries sustained in a plane crash near Rawlins, Wyo. Woodrow was 64 years of age.



Stargazing

The steel shutter in the ceiling of the dome-shaped building opens. The clear evening sky filled with pin-sized stars appears—ready to be examined more closely through the 16-inch reflector telescope at the observatory on Blue Mountain near Missoula.

Thomas E. Margrave, assistant professor of physics and astronomy at the University, explains to his students in the photo above the optical mirrors in the telescope which is operated and maintained by the physics and astronomy department.

Observing with Margrave and his students in the photo on the left is Ed Taylor, who was graduated from the University in 1924 and returned from Burlingame, Calif., as a Golden Grizzly for Homecoming activities. He said he has been a stargazer for more than 25 years.

The moon as photographed from Apollo 12 in 1969 appears in the top photo. Similar views of the moon with the same detail can be studied through the earth-bound telescope on Blue Mountain.